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Protection of Corn, 1980-November 1984 AGRICOLA (Agricultural On-Line Access) Citations for Diseases, Insects, Nematodes, Chemicals and Other Environmental Considerations

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Jun 85

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United States
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The Protection of Corn, 1980-November 1984

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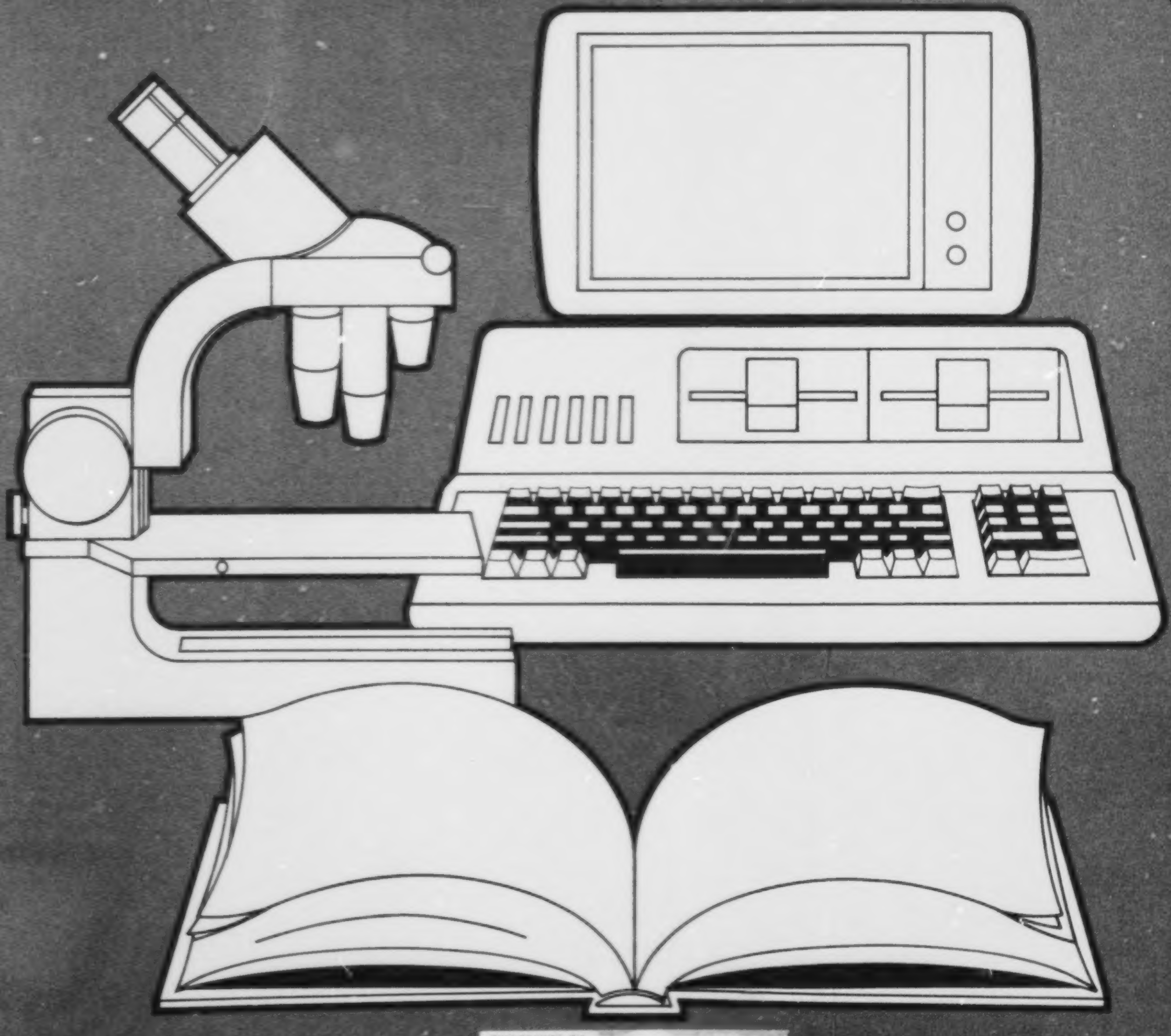

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REPORT DOCUMENTATION PAGE

1. REPORT NO.

2.

3. Recipient's Accession No. PB85 222669 /AS

4. Title and Subtitle The Protection of Corn, 1980-November 1984
AGRICOLA Citations for Diseases, Insects, Nematodes, Chemicals and Other Environmental Considerations

5. Report Date June 1985

6.

7. Author(s) Charles N. Bebee

8. Performing Organization Rept. No. BLA-36

9. Performing Organization Name and Address

U.S. Department of Agriculture
National Agricultural Library
Beltsville, Maryland 20705

and

10. Project/Task/Work Unit No.

11. Contract(C) or Grant(G) No.
(C)
(G)

~~12. Sponsoring Organization Name and Address~~

U.S. Environmental Protection Agency
Office of Pesticide Programs
Washington, D.C. 20460

13. Type of Report & Period Covered

14.

15. Supplementary Notes

16. Abstract (Limit: 200 words)

Literature citations relating to the protection of corn were selected from the AGRICOLA--Agricultural On-Line Access data base, produced by the National Agricultural Library. The listing is subdivided by the section headings currently used for the AGRICOLA tape and each is cited under every assigned heading.

Citations cover the practices used to protect corn from diseases, insects, nematodes, chemicals, injuries incurred in tillage, and other environmental problems.

17. Document Analysis a. Descriptors

Corn-Bibliographies
Corn-Environmental Protection
Corn-Diseases

b. Identifiers/Open-Ended Terms

c. COSATI Field/Group

18. Availability Statement Release unlimited

19. Security Class (This Report) UNCLASSIFIED

20. Security Class (This Page) UNCLASSIFIED

21. No. of Pages 224

22. Price

(See ANSI-Z39.18)

See Instructions on Reverse

OPTIONAL FORM 272 (4-77)
(Formerly NTIS-35)
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The Protection of Corn, 1980-November 1984

Agricola Citations for Diseases, Insects, Nematodes, Chemicals, and Other Environmental Considerations

Compiled and Edited by
Charles N. Bebee
National Agricultural Library

Bibliographies and Literature of Agriculture No. 36

United States Department of Agriculture
National Agricultural Library
Beltsville, Maryland 20705

and

United States Environmental Protection Agency
Office of Pesticide Programs
Washington, D.C. 20460

June 1985

FOREWORD

This is the first volume in a series of commodity-oriented environmental bibliographies resulting from a memorandum of understanding between the United States Department of Agriculture, National Agricultural Library (USDA-NAL), and the Environmental Protection Agency, Office of Pesticide Programs (EPA-OPP).

This close working relationship between the two agencies will produce a series of bibliographies which will be useful to EPA in the regulation of pesticides, as well as to any researcher in the field of plant or commodity protection. The broad scope of information contained in this series will benefit USDA, EPA, and the agricultural community as a whole.

The sources referenced in these bibliographies include the majority of the latest available information from United States publications involving commodity protection throughout the growing and processing stages for each agricultural commodity.

We welcome the opportunity to join this cooperative effort between USDA and EPA in support of the national agricultural community.

Joseph H Howard

JOSEPH H. HOWARD, Director
National Agricultural Library

STEVEN SCHATZOW, Director
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INTRODUCTION

The citations in this bibliography are selected from works by U.S. authors on all aspects of the protection of corn from diseases, insects, nematodes, chemicals, or other environmental conditions which affect the yield and quality of this commodity. All citations are derived from AGRICOLA (AGRICultural OnLine Access), the master bibliographic database compiled by the National Agricultural Library for its 1.8-million-volume collection.

This is the first bibliography in a series jointly sponsored by the National Agricultural Library, United States Department of Agriculture (USDA-NAL), and the Office of Pesticides Programs, Environmental Protection Agency (EPA-OPP). Additional volumes planned in the immediate future will concern protection of soybeans, cotton, wheat, grain sorghum, rice, peanuts, and tobacco.

Entries in the bibliography are subdivided into a series of subject headings used in the table of contents of the Bibliography of Agriculture and in the National Agricultural Library Catalog. Each citation appears under the subject heading assigned to the particular item. A complete author index is also included in the publication.

The Office of Pesticide Programs, EPA, has furnished technical assistance to the compiler through members of a commodity-oriented environmental data team which included:

Charles D. Reese
H. Irving Brigham
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Richard Petrie

Any comments or questions may be forwarded to the compiler:

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0002

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0003

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0010

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Eichers, T.R. Washington, D.C., The Department. Extract: The primary objective of this study is to analyze the nature of the pesticide industry by smaller component markets (submarkets) and evaluate its structure, conduct, and performance. The study also examines some of the implications of pesticide regulations on the pesticide industry and on farm pesticide use. Agricultural economic report - United States Dept. of Agriculture. Sept 1980. Sept 1980. (461). 24 p. 39 ref. (NAL Call No.: A281.9 AG8A).

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0019

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0020

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0029

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Ferguson, W.L. McCalla, I.E. Washington, D.C., The Service. Extract: According to the 1979 Vegetable Pesticide Survey, nearly 4.6 million pounds of pesticides were used to control weeds, insects, diseases, and nematodes on six vegetable crops in Florida. The six vegetable crops included cabbage, celery, lettuce, sweet corn, tomatoes, and watermelon. About 4.6 million acre-treatments were made ranging from 2.2 million for tomatoes to 148,800 for cabbage. ERS staff report - U.S. Dept. of Agriculture, Economic Research Service. July 1981. Available from NTIS. July 1981. (AGESS810708). 23 p. 6 ref. (NAL Call No.: 916762(AGE)).

0030

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Ferguson, W.L. McCalla, I.E. Washington, D.C., The Service. Extract: According to the U.S. Department of Agriculture's 1979 Vegetable Pesticide Survey, approximately 1.3 million pounds of pesticides were used to control weeds, insects, diseases and nematodes on 10 vegetable crops in New York and New Jersey. The 10 vegetable crops include cabbage, carrots, celery, cucumbers, green peas, lettuce, onions, snap beans, sweet corn, and tomatoes. Approximately 825,000 acre-treatments were made ranging from 262,000 for sweet corn to 700 for carrots. ERS staff report - U.S. Dept. of Agriculture, Economic Research Service. Dec 1981. Available from NTIS. Dec 1981. (AGES811218). 37 ref. 7 ref. (NAL Call No.: 916762(AGE)).

0031

1979 pesticide use on vegetables in the Northwest, a preliminary report.
Kuntz, B.T. Ferguson, W.L. Washington, D.C., The Service. Extract: According to a 1979 Vegetable Pesticide Survey, nearly 1.3 million pounds of pesticides were used to control weeds, insects, fungi, and nematodes on seven vegetable crops in Idaho, Oregon, and Washington. The seven vegetable crops included cabbage, carrots, green peas, lettuce, onions, snap beans, and sweet corn. Approximately 671,000 acre-treatments were made ranging from 255,000 for sweet corn to 1,800 for cabbage. ERS staff report - United States Dept. of Agriculture, Economic Research Service. Mar 1982. Available from NTIS. Mar 1982. (AGES820305). 32 p. 4 ref. (NAL Call No.: 916762(AGE)).

0032

1979 pesticide use on vegetables in the Southeast, a preliminary report.
Ferguson, W.L. McCalla, I.E. Washington, D.C., The Service. Extract: In this report, patterns of pesticide use in the Southeast (North Carolina, South Carolina, and Georgia) in 1979 are discussed for cabbage, cantaloups, cucumbers, snap beans, sweet corn, tomatoes, and watermelons. Survey data were collected on quantities of pesticides used, acres treated, acre-treatments, number of applications, annual rates, and rate per acre-treatment. This report provides information useful to policymakers, researchers, extension specialists, and industry personnel. ERS staff report - U.S. Dept. of Agriculture, Economic Research Service. Oct 1981. Available from NTIS. Oct 1981. (AGES811029). 32 p. 11 ref. (NAL Call No.: 916762(AGE)).

0033

1979 pesticide use on vegetables in the Southwest, a preliminary report.
Ferguson, W.L. McCalla, I.E. Washington, D.C., The Service. Abstract: According to U.S. Department of Agriculture's 1979 Vegetable Pesticide Survey, about 1.7 million pounds of pesticides were used to control weeds, insects, diseases, and nematodes on 10 vegetable crops in Arizona, Colorado, and Texas. The 10 vegetable crops included cabbage, cantaloups, carrots, cucumbers, lettuce, onions, snap beans, sweet corn, tomatoes, and watermelons. Nearly 1.1 million acre-treatments were made ranging from about 284,000 for onions to 4,000 for cucumbers and snap beans. ERS staff report - U.S. Dept. of Agriculture, Economic Research Service. Dec 1981. Available from NTIS - order no. PB82-166-885. Dec 1981. (AGES811221). 45 p. 7 ref. (NAL Call No.: 916762(AGE)).

0034

1980 pesticide use on field corn in the Northern Plains / by Michael Hanthorn ... (et al.).
Hanthorn, Michael. Washington, D.C. Natural Resource Economics Division, Economic Research Service, U.S. Dept. of Agriculture Springfield, Va. NTIS 1982. February 1982 -PB82-220120. iii, 23 leaves : map ; 28 cm. -. Bibliography: p. 19. (NAL Call No.: aSB608.M2N5).

PLANT PRODUCTION - FIELD CROPS

0035

Aflatoxin and aspergillus flavus in corn / edited by Urban L. Diener (Editor-in-Chief), Richard L. Asquith, (and) J.W. (Bill) Dickens.
Diener, Urban L. Auburn University, Alabama Department of Research Information, Alabama Agricultural Experiment Station 1983. "...consists of manuscripts prepared for the Symposium on 'Aflatoxin and Aspergillus Flavus in Corn' held in Atlanta, Georgia on January 26 and 27, 1982. -Includes index. iv, 112 p. : ill. ; 28 cm. -. Bibliography: p. 91-105. (NAL Call No.: 100 G29So no.279).

0036

Agronomic practices influence black cutworm (Agrotis ipsilon) damage on corn.
Levine, E. Clement, S.L.; McCartney, D.A. Wooster, The Center. Ohio report on research and development in agriculture, home economics, and natural resources - Ohio Agricultural Research and Development Center. Mar/Apr 1981. v. 66 (2). p. 29-30. ill. (NAL Call No.: 100 OH3S (3)).

0037

Allowable storage time of corn as affected by heat buildup, natural convection and aeration.
Brooker, D.B. Duggal, A.K. St. Joseph, Mich., The Society. Transactions of the ASAE - American Society of Agricultural Engineers. May/June 1982. v. 25 (3). p. 806-810. 6 ref. (NAL Call No.: 290.9 AM32T).

0038

Annual progress report - 1980 : Northern Research Center, Clarion- Webster Research Center / Iowa State University of Science and Technology.
1981. This publication contains researched information on planting dates verses plant population, breeding, cold tolerance and Zn, S, K fertilization for corn. Soybean information on brown stem rot and bacterial tan spot is provided. Additional topics include herbicide evaluation, small grain tests, and vegetable garden demonstrations. Document available from: Iowa State Univ., Publications Distribution, Printing & Publications Bldg., Ames, Iowa 50011. 24 p. : ill. (NAL Call No.: Not available at NAL.).(NAL Call No.: ORC 80-14,22).

0039

Annual progress report-1979 : Allee Research Center, Newell, Iowa / Iowa State University of Science and Technology.
1980. This publication reports the performance of different corn silage levels on confinement cattle that either had shelter or did not have shelter. Included is a discussion on the effects of season and weight on yearling steer feedlot performance. Document available from: Iowa State University, Publications Distribution, Printing & Publications Bldg., Ames, Iowa 50011. 8 p. : ill. (NAL Call No.: Not available at NAL.).(NAL Call No.: ORC 79-31).

0040

Annual progress report-1980 / Iowa State University.
Document available from: Iowa State University, Publications Distribution, Printing & Publications Bldg., Ames, Iowa 50011 1981. This publication discusses the research center experiments on tiling methods, time of planting corn, S and Zn fertilizers, fuel and time requirements for tillage system, organic and chemical farming, soybean bacterial tan spot loss, and pasture nutrient losses. Herbicide evaluation and crop variety tests are included. 19 p. : ill. (NAL Call No.: Document available from source.).(NAL Call No.: ORC 80-13).

0041

Chemical weed control in field corn for 1982.
Kerr, Harold D. Scott, Joseph H.; Peters, E. J.; Anderson, L. E.; Fletchall, O. Hale.; Guethle, David.& Part 2 :; pre-emergence and postemergence. Document available from: University of Missouri, Extension Publication, 211 Whitten Hall, Columbia, Missouri 65201 1982. This publication discusses various herbicides and when to apply them. 8 p. (NAL Call No.: Document available from source.).(NAL Call No.: 4136).

0042

Chemical weed control in field corn for 1982.
Kerr, Harold D. Scott, Joseph H.; Peters, E. J.; Anderson, L. E.; Helsel, Zane R.; Guscar, Howard.& Part 1 :; preplanting incorporated treatments. Document available from: University of Missouri, Extension Publication, 211 Whitten Hall, Columbia, Missouri 65201 1982. This publication discusses herbicide evaluation and application rates. Topics include various herbicides and their uses. 4 p. (NAL Call No.: Document available from source.).(NAL Call No.: 4135).

0043

Chemicals for weed control in corn / Gerald R. Miller.
Miller, Gerald R. (St. Paul, Minn.) Agricultural Extension Service, University of Minnesota 1981. Pesticide Applicator Training Collection -Cover title. (2) p. ; 28 cm. -. (NAL Call No.: SB608.M2M5 1981).

0044

Crop rotation vs. monoculture. I. Insect control (Pests of maize, cotton, rice, soybeans, sorghum).
Barnes, G. Madison, Wis., American Society of Agronomy. Crops and soils magazine. Jan 1980. v. 32 (4). p. 15-17. ill. (NAL Call No.: 6 W55).

0045

Damage and yield reduction in field corn due to black cutworm (Lepidoptera: Noctuidae) feeding: results of a computer simulation study (Agrotis ipsilon, Illinois).
Troester, S.J.JEENA. College Park : Entomological Society of America. Journal of economic entomology. Dec 1982. v. 75 (6). p. 1125-1131. 10 ref. (NAL Call No.: 421 J822).

0046

Diseases of corn.
(Kentucky) University of Kentucky, Cooperative Extension Service 1982. Pesticide Applicator Training collection -Cassette title: Wheat diseases and armyworms. 50 slides : col. + 1 sound cassette (17:40 min.) + 1 script. (NAL Call No.: Slide no.19).

0047

Distribution of damage in maize combine cylinder and relationship between physico-rheological properties of shelled grain and damage / by Ali Ramadan Mahmoud.
Mahmoud, Ali Ramadan. Ann Arbor, Mich. University Microfilms 1973. Thesis--Iowa State University, 1972. Facsimile produced by microfilm-xerography. iii, 215 leaves. Bibliography: leaves 153-167. (NAL Call No.: DISS 73-3,908).

0048

Effect of age of bahiagrass (Paspalum notatum) sod on succeeding corn crops (Nematodes, Florida).
Norden, A.J. Perry, V.G.; Martin, F.G.; NeSmith, J. n.p., The Society. Proceedings - Soil and Crop Science Society of Florida. 1980. v. 39. p. 118-121. 10 ref. (NAL Call No.: 56.9 S032).

0049

Effect of nitrogen fertilizer, planting date, and harvest date on aflatoxin production in corn inoculated with Aspergillus flavus (North Carolina).
Jones, R.K. Duncan, H.E. St. Paul, Minn., American Phytopathological Society. Plant disease. Sept 1981. v. 65 (9). p. 741-744. ill. 23 ref. (NAL Call No.: 1.9 P69P).

0050

Effect of seedborne Fusarium moniliforme and irrigation scheduling on colonization of root and stalk tissue, stalk rot incidence, and grain yields (Corn, Zea mays).
El-Meleigi, M.A.CRPSAY. Claflin, L.E.; Raney, R.J. Madison : Crop Science Society of America. Crop science. Nov/Dec 1983. v. 23 (6). p. 1025-1028. Includes references. (NAL Call No.: 64.8 C883).

0051

The European corn borer in Virginia presented by Virginia Tech ; (written by Joseph L. Despins).
Despins, Joseph L. (Blacksburg, Va.) Virginia Polytechnic Institute and State University (1981?). Pesticide Applicator Training Collection. 48 slides : col. + 1 sound cassette (12:30 mins.) + 1 script. (NAL Call No.: Slide no.25).

0052

Fall armyworm resistance in corn and its supression of larval survival and growth (Spodoptera frugiperda, Zea mays, corn genotypes, comparisons).
Williams, W.P.AGJOA. Davis, F.M.; Wiseman, B.R. Madison : American Society of Agronomy. Agronomy journal. Sept/Oct 1983. v. 75 (5). p. 831-832. Includes references. (NAL Call No.: 4 AM34P).

0053

Fertilizer reduces yield loss from weather stress (Corn, soybeans, research in Ohio).
Johnson, J.BCPFA. Atlanta : Potash & Phosphate Institute. Better crops with plant food. Summer 1983. v. 67. p. 6-7. (NAL Call No.: 6 B46).

0054

Field comparisons of planting time applications of Lorsban 15G insecticide for control of black cutworm and corn rootworm in corn (Agrotis ipsilon, Diabrotica, species).
French, L.K. French, J.A. Midland, Mich., Agricultural Products Dept., Dow Chemical Co. Down to earth. Spring 1979. v. 35 (2). p. 1-5. ill. (NAL Call No.: 381 D75).

0055

Forage production and weed control in a double-cropping program (Avena sativa, Zea mays, Glycine max, Sorghum bicolor, Wisconsin).
Okoli, P.S.O. Drolsom, P.N.; Scholl, J.M. Madison, Wis. : American Society of Agronomy. Agronomy journal. May/June 1984. v. 76 (3). p. 363-366. Includes references. (NAL Call No.: 4 AM34P).

0056

Grain yields, soil water storage, and weed growth in a winter wheat-corn-fallow rotation (Nebraska).
Hoefer, R.H. Wicks, G.A.; Burnside, O.C. Madison, Wis., American Society of Agronomy. Agronomy journal. Nov/Dec 1981. v. 73 (6). p. 1066-1071. 15 ref. (NAL Call No.: 4 AM34P).

0057

Guidelines.
Nelson, L. V. Robertson, L. S.; Erdmann, M. H.; Guisenberry, D.; White, R. G.& No till corn: 1. Document available from: Michigan State University, Bulletin Office, P.O. Box 231, East Lansing, Michigan 48824 1976. This publication discusses guidelines for no till corn including soil adaptation, equipment requirements, and control of weeds. 4 p. : ill. (NAL Call No.: Document available from source.).(NAL Call No.: Extension Bulletin E-904).

0058

Herbicide incorporation and reduced tillage (Maize).
San Francisco, California Farmer Publishing Co. Agrichemical age. Apr 1981. v. 25 (4). p. 26-27. ill. (NAL Call No.: 381 AG85).

0059

How the 1983 weather hurt the corn crop (Drought, yield, Corn Belt).
Thompson, L.M. Atlanta, Ga. : Potash & Phosphate Institute. Better crops with plant food. Summer 1984. v. 68. p. 18-19. ill. (NAL Call No.: 6 B46).

0060

In the Southeast managing corn diseases and nematodes.
Crawford, J.L. San Francisco, California Farmer Publishing Co. Agrichemical age. Mar 1981. v. 25 (3). p. 6-7, 44. ill. (NAL Call No.: 381 AG85).

0061

Influence of herbicides and tillage on sweet corn double cropped after peas (Dinitroaniline herbicides).
Ndon, B.A. Harvey, R.G. Madison, Wis., American Society of Agronomy. Agronomy journal. 1981. v. 73 (5). p. 791-795. 19 ref. (NAL Call No.: 4 AM34P).

0062

Inheritance and survival on field corn of European corn borer larvae reared on a meridic diet / by Yogendra Singh Rathore.
Rathore, Yogendra Singh. Ann Arbor, Mich. University Microfilms 1973. Thesis--Iowa State University, 1972. Facsimile produced by microfilm-xerography. ii, 70 leaves. Bibliography: leaves 55-59. (NAL Call No.: DISS 73-3,925).

0063

Insect pest management for corn on the western Great Plains.
Manhattan, Kansas Cooperative Extension Service, Kansas State University 1981. Publication was written by a committee of extension entomologists, supported by a grant from the Extension Service, U.S. Department of Agriculture. 36 p. : ill. (some col.) ; 28 cm. -. (NAL Call No.: 275.29 K13Ex no.612).

0064

Irrigated corn yield response to nitrogen and water (Zea mays, plant water stress, irrigation methods, fertilizer trials, Texas).
Eck, H.V. Madison, Wis. : American Society of Agronomy. Agronomy journal. May/June 1984. v. 76 (3). p. 421-428. ill. Includes references. (NAL Call No.: 4 AM34P).

0065

Maize weevil : a search for resistance in converted exotic sorghum kernels / G.L. Teetes ... (et al.).
Teetes, G. L. College Station, Tex. Texas Agricultural Experiment Station 1981. 38 p. 28 cm. -. Bibliography: p. 16-18. (NAL Call No.: 100 T31S (1) no.1371).

0066

Maize yields and soil nutrient levels with and without pesticides and standard commercial fertilizers (Organic farming).
Lockeretz, W. Shearer, G.; Sweeney, S.; Kuepper, G.; Wanner, D.; Kohl, D.H. Madison, Wis., American Society of Agronomy. Agronomy journal. Jan/Feb 1980. v. 72 (1). p. 65-72. ill. 18 ref. (NAL Call No.: 4 AM34P).

0067

Managing cutworms in corn.
Foster, David E. Stockdale, H. J. Document available from: Iowa State University, Publications Distribution, Printing & Publications Bldg., Ames, Iowa 50011 1981. This publication identifies black and dingy cutworms, scouting techniques, recommended controls, and mentions briefly glassy and sandhill cutworms. 1 sheet : ill. (NAL Call No.: Document available from source.).(NAL Call No.: Pm-887).

0068

Mechanisms of host plant resistance in corn to the corn earworm Heliothis zea (Boddie) (Lepidoptera, Noctuidae) / by Richard W. Straub.
Straub, Richard W., 1940. Ann Arbor, Mich. University Microfilms 1973. Thesis--University of Missouri, Columbia, 1972. Facsimile produced by microfilm-xerography. xiv, 222 leaves. Bibliography: leaves 217-219. (NAL Call No.: DISS 73-7,098).

0069

Performance of corn hybrids exposed to corn viruses in Ohio in 1980.
Findley, W.R. Louie, R.; Knoke, J.K.; Ryder, G.J. Wooster, The Center. Agronomy Department series - Ohio Agricultural Research and Development Center. Jan 1981. Jan 1981. (213). 8 p. (NAL Call No.: 100 OH32).

0070

Post-PIK (payment in kind) management--corn, soybean weed control (United States).
Knake, E.L. Madison, Wis. : American Society of Agronomy. Crops and soils magazine. Dec 1983. v. 36 (3). p. 15-17. ill. (NAL Call No.: 6 W55).

0071

Problems with irrigated corn, 1982 (Response to nitrogen, Minnesota).
Fenster, W.E.MXMRA. Overdahl, C.J. St. Paul : The Station. Miscellaneous publication - University of Minnesota, Agricultural Experiment Station. 1983. 1983. (2 rev.). p. 104-106. (NAL Call No : S1.M52).

0072

Regrowth of corn seedlings after injury at different growth stages by black cutworm, Agrotis ipsilon (Lepidoptera: Noctuidae) larvae.
Levine, E.JEENA. Clement, S.L.; Rubink, W.L.; McCartney, D.A. College Park : Entomological Society of America. Journal of economic entomology. Apr 1983. v. 76 (2). p. 389-391. Includes references. (NAL Call No.: 421 J822).

0073

Response of peanut, corn, tobacco, and soybean to Criconemella ornata (Nematode, yields).
Barker, K.R.JDNEB. Schmitt, D.P.; Campos, V.P. Ames : Society of Nematologists. Journal of nematology. Oct 1982. v. 14 (4). p. 576-581. Includes references. (NAL Call No.: QL391.N4J62).

0074

Response of several genetic sources of corn to acidic soil (Zea mays, breeding for stress tolerance).
Sherchan, K.AGJDA. Ellis, R. Jr.; Whitney, D.A.; Wassom, C.E. Madison : American Society of Agronomy. Agronomy journal. Nov/Dec 1983. v. 75 (6). p. 993-996. Includes references. (NAL Call No.: 4 AM34P).

0075

Stand establishment and yield of corn as affected by herbicides and seed vigor (Illinois).
Johnson, R.R. Wax, L.M. Madison, Wis., American Society of Agronomy. Agronomy journal. 1981. v. 73 (5). p. 859-863. 15 ref. (NAL Call No.: 4 AM34P).

0076

Summary of insecticide uses in Iowa for 1981 corn production.
Stockdale, Harold J. Document available from: Iowa State University, Publications Distribution, Printing & Publications Bldg., Ames, Iowa 50011 1980. Included are topics on insecticide uses for commonly found insects. Insects, insecticides, application rates and nonchemical control methods are covered. 1 sheet. (NAL Call No.: Document available from source.).(NAL Call No.: IC-404).

0077

Sweet corn budworm damage as affected by tillage (Spodoptera frugiperda, Pseudaletia unipuncta, Heliothis zea).
Clough, G.H. Halsey, L.H. s.l., The Society. Proceedings of the ... annual meeting of the Florida State Horticultural Society. 1980 (pub 1981). v. 93. p. 251-253. 14 ref. (NAL Call No.: 81 F66).

0078

Topping corn and delaying harvest for field drying (Diatrea grandiosella, grain moisture, yield).
Allen, R.R.TAAEA. Musick, J.T.; Hollingsworth, L.D. St. Joseph : The Society. Transactions of the ASAE - American Society of Agricultural Engineers. Nov/Dec 1982. v. 25 (6). p. 1529-1532. ill. Includes references. (NAL Call No.: 290.9 AM32T).

0079

Weed control.
Schultz, G. E. Meggitt, W. F.; Chase, R. W.& No till corn :; 4. Document available from: Michigan State Univ., Bulletin Office, P.O. Box 231, East Lansing, Michigan 48824 1979. This discusses herbicides used for vegetation control on no-till corn based on the type of vegetation cover. It also discusses herbicide safety. 5 p. : ill. (NAL Call No.: Document available from source.).(NAL Call No.: Extension Bulletin E-907).

0080

Weed control experiments in corn.
Leasure, J.K. Carbondale, Ill., Southern Illinois University. AG reviewSouthern Illinois University. School of Agriculture. 1981. 1981. p. PLSS48-PLSS53. (NAL Call No.: S537.S5S6).

0081

Weed control in a winter wheat-corn-ecofarming rotation (Reduced tillage, row spacing, seeding rates, Triticum aestivum, Zea mays, Nebraska).
Vander Vost, P.B.AGJOA. Wicks, Gg.A.; Burnside, O.C. Madison : American Society of Agronomy. Agronomy journal. May/June 1983. v. 75 (3). p. 507-511. ill. Includes references. (NAL Call No.: 4 AM34P).

0082

Weed control in commercial sweet corn production.
Doersch, R. E. Doll, J. D. Document available from: University of Wisconsin, Agricultural Bulletin Building, 1535 Observatory Drive, Madison, Wisconsin 53706 1982. This publication lists herbicide treatments for specific weed problems; specifically for commercial sweet corn production. 11 p. (NAL Call No.: Document available from source.).(NAL Call No.: A2345).

0083

Weed control in corn planted into untilled winter wheat stubble.
Burnside, O.C. Wicks, G.A. Madison, Wis., American Society of Agronomy. Agronomy journal. May/June 1982. v. 74 (3). p. 521-526. Includes 12 ref. (NAL Call No.: 4 AM34P).

0084

1980 corn and grain sorghum performance tests (Hybrids, yields, insect resistance, Georgia).
Athens, Ga., The Stations. Research report - University of Georgia, Experiment Stations. Jan 1981. Jan 1981. (370). 54 p. ill., map. Includes bibliography. (NAL Call No.: S51.E22).

0085

1980 pesticide use on field corn in the Corn Belt.
Hanthorn, M. Osteen, C.; McDowell, R.; Roberson, L. Washington, D.C., The Service. Extract: Farmers reported that 144.8 million pounds (a.i.) of pesticides were applied to field corn in the Corn Belt during 1980. This consisted of 127 million pounds (a.i.) of herbicides and 17.8 million pounds (a.i.) of insecticides. Pesticide acre-treatments totaled 75.5 million and consisted of 43.6 million with single material herbicides, 15.7 million with herbicide mixes, and 16.2 million with insecticides. The primary herbicides were alachlor, atrazine, butylate, and 2,4-D. The major insecticides were carbofuran, fonofos, and terbufos. ERS staff report - U.S. Dept. of Agriculture, Economic Research Service. Jan 1982. Available from NTIS - order no. PB82-165-481. Jan 1982. (AGES820120). 30 p. 5 ref. (NAL Call No.: 916762(AGE)).

0086

1980 pesticide use on field corn in the Lake States.
Hanthorn, M. Osteen, C.; McDowell, R.; Roberson, L. Washington, D.C., The Service. Extract: Farmers reported that 49.3 million pounds (a.i.) of pesticides were applied to field corn in the Lake States during 1980. This consisted of 43.4 million pounds (a.i.) of herbicides and 5.9 million pounds (a.i.) of insecticides. Pesticide acre-treatments totaled 26.3 million and consisted of 16 million with single material herbicides, 4.7 million with herbicide mixes, and 5.6 million with insecticides. The primary herbicides were alachlor, atrazine, cyanazine, and 2,4-D. The major insecticides were carbofuran, fonofos, phorate, and terbufos. ERS staff report - U.S. Dept. of Agriculture, Economic Research Service. Jan 1982. Available from NTIS - order no. PB82-166-893. Jan 1982. (AGES820118). 23 p. 4 ref. (NAL Call No.: 916762(AGE)).

0087

1980 pesticide use on field corn in the major producing states.
Hanthorn, M. Osteen, C.; McDowell, R.; Roberson, L. Washington, D.C., The Service. Extract: Farmers reported that 245.9 million pounds (a.i.) of pesticides were applied to field corn in the major producing States during 1980. This consisted of 209.5 million pounds (a.i.) of herbicides and 36.4 million pounds (a.i.) of insecticides. Pesticide acre-treatments totaled 135.4 million and consisted of 73.8 million with single material herbicides, 25.7 million with herbicide mixes, and 35.9 million with insecticides. The primary herbicides were alachlor, atrazine, and 2,4-D. The major insecticides were carbofuran, fonofos, and terbufos. ERS staff report - U.S. Dept. of Agriculture, Economic Research Service. Feb 1982. Available from NTIS. Feb 1982. (AGES820202). 33 p. 4 ref. (NAL Call No.: 916762(AGE)).

0088

1980 pesticide use on field corn in the Northern Plains.
Hanthorn, M. Osteen, C.; McDowell, R.; Roberson, L. Washington, D.C., The Service. Extract: Farmers reported that 33.3 million pounds (a.i.) of pesticides were applied to field corn in the Northern Plains during 1980. This consisted of 23.7 million pounds (a.i.) of herbicides and 9.6 million pounds (a.i.) of insecticides. Pesticide acre-treatments totaled 23.1 million and consisted of 9 million with single material herbicides, 3.6 million with herbicide mixes, and 10.5 million with insecticides. The primary herbicides were alachlor, atrazine, and 2,4-D. The major insecticides were carbofuran, dimethoate, fonofos, parathion, and terbufos. ERS staff report - U.S. Dept. of Agriculture, Economic Research Service. Feb 1982. Available from NTIS. Feb 1982. (AGES820204). 23 p. 4 ref. (NAL Call No.: 916762(AGE)).

PLANT BREEDING

0089

Adaptation of cotton genotypes to an acid, manganese toxic soil (Eastern Corn Belt soils).
Foy, C.D. Webb, H.W.; Jones, J.E. Madison, Wis., American Society of Agronomy. Agronomy journal. Jan/Feb 1981. v. 73 (1). p. 107-111. ill. 14 ref. (NAL Call No.: 4 AM34P).

0090

Aflatoxin accumulation in developing kernels of eight maize single crosses after inoculation with Aspergillus flavus (Genetic control, breeding for resistance).
Thompson, D.L. Rawlings, J.O.; Zuber, M.S.; Payne, G.A.; Lillehoj, E.B. St. Paul, Minn. : American Phytopathological Society. Plant disease. June 1984. v. 68 (6). p. 465-467. Includes references. (NAL Call No.: 1.9 P69P).

0091

Aflatoxin in corn before harvest: interaction of hybrids and locations (Aspergillus flavus, mycotoxin, corn insects).
Lillehoj, E.B. Kwolek, W.F.; Zuber, M.S.; Bockholt, A.J.; Calvert, O.H.; Findley, W.R.; Guthrie, W.D.; Horner, E.S.; Josephson, L.M.; King, S. Madison, Wis., Crop Science Society of America. Crop science. Nov/Dec 1980. v. 20 (6). p. 731-734. 13 ref. (NAL Call No.: 64.8 C883).

0092

Artifical versus natural infestation for evaluation of kernel and stalk damage in maize by the european corn borer (Zea mays, Ostrinia nubilalis).
Grier, S.L. Davis, D.W. Alexandria, Va., The Society. Journal of the American Society for Horticultural Science. May 1982. v. 107 (3). p. 519-521. 5 ref. (NAL Call No.: 81 SO12).

0093

AS9 sweet corn population (Sugary-1 breeding, resistance to European corn borer, Ostrinia nubilalis).
Davis, D.W. Grier, S.L. Alexandria, Va., American Society for Horticultural Science. HortScience. Oct 1980. v. 15 (5). p. 666-667. ill. 1 ref. (NAL Call No.: SB1.H6).

0094

Battling corn borers (Breeding for resistance)--Is there hope? Experts say it takes time.
St. Paul, Minn., Webb Co. Irrigation age. Sept 1979. v. 14 (1). p. 6-7. ill. (NAL Call No.: TC801.I7).

0095

Biochemical basis of resistance in corn to the corn leaf aphid (Rhopalosiphum maidis).
Beck, D.L.CRPSAY. Dunn, G.M.; Routley, D.G.; Bowman, J.S. Madison : Crop Science Society of America. Crop science. Sept/Oct 1983. v. 23 (5). p. 995-998. Includes references. (NAL Call No.: 64.8 C883).

0096

Brandes: a source of resistance to maize dwarf mosaic in swet sorghum (Abstract only).
Zummo, N. Freeman, K.C. St. Paul, Minn., American Phytopathological Society. Phytopathology. Aug 1981. v. 71 (8). p. 914. (NAL Call No.: 464.8 P56).

0097

Breeding for insect resistance (host plants, alfalfa, wheat, maize, cotton).
Jenkins, J.N. Ames : Iowa State University Press, 1981. Plant Breeding II : (proceedings) / edited by Kenneth J. Frey. p. 291-308. 2 p. ref. (NAL Call No.: SB123.P6 1979).

0098

Breeding for resistance to insects in corn.
Guthrie, W.D. TX-AR-NC. College Station, Tex., The Station. MP - Texas Agricultural Experiment Station. July 1980. July 1980. (1451). p. 290-302. Bibliography p. 298-302. (NAL Call No.: 100 T31M).

0099

Breeding for resistance to pathogens in corn.
Toler, R.W. TX. College Station, Tex., The Station. MP - Texas Agricultural Experiment Station. July 1980. July 1980. (1451). p. 283-289. 27 ref. (NAL Call No.: 100 T31M).

0100

Chemosensory responses of the rice weevil (Coleoptera:Curculionidae)to a susceptible and a resistant corn genotype (Sitophilus oryzae).
Gomez, L.A.JEENA. Rodriguez, J.G.; Poneleit, C.G.; Blake, D.F.; Smith, C.R. Jr. College Park : Entomological Society of America. Journal of economic entomology. Oct 1983. v. 76 (5). p. 1044-1048. ill. Includes references. (NAL Call No.: 421 J822).

0101

The CIMMYT's (International Maize and Wheat Improvement Center) interantional approach to breeding disease-resistant wheat.
Dubin, H.J. Rajaram, S. St. Paul, Minn., American Phytopathological Society. Plant disease. Oct 1982. v. 66 (10). p. 967-971. ill., map. 15 ref. (NAL Call No.: 1.9 P69P).

0102

Comparison of gains predicted by several selection methods for cold tolerance traits of two maize populations.
Crosbie, T.M. AR-NC. Mock, J.J.; Smith, O.S. Madison, Wis., Crop Science Society of America. Crop science. Sept/Oct 1980. v. 20 (5). p. 649-655. 17 ref. (NAL Call No.: 64.8 C883).

0103

Corn disease evaluations for Delaware (Hybrid comparisons, resistance).
Carroll, R.B.DUABA. Cameron, G.E. Newark : The Station. Bulletin - Delaware Agricultural Experiment Station. Jan 1983. Jan 1983. (444). 14 p. (NAL Call No.: 100 D37S (1)).

0104

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PLANT STRUCTURE

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Magnesium deficiency results in increased suberization in endodermis and hypodermis of corn roots (Zea mays, maize, suberin composition, chemical and ultrastructural proof).
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PLANT PHYSIOLOGY AND BIOCHEMISTRY

0223

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0233

Exudation of glyphosate from wheat (Triticum aestivum) plants and its effects on interplanted cron (Zea mays) and soybeans (Glycine max) (Growth regulator, herbicide uptake, no-tillage).
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0234

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Growth and aflatoxin production in shelled corn by the Aspergillus Flavus group as related to relative humidity and temperature / by John H. Hunter.
Hunter, John H. (John Howard), 1939. 1969. Thesis (Ph.D.)--Purdue University, 1969. Photocopy. Ann Arbor, Mich. : University Microfilms, 1970. xi, 115 leaves : ill. ; 21 cm. Bibliography: leaves 83-94. (NAL Call No.: DISS 69-17,191).

0236

Leaf surface electrostatics: Apparatus and procedures used under controlled and natural conditions (Beans, maize, active discharge of conisia and sporangia of dry-spored foliar fungal pathogens).
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0238

Leaf surface electrostatics: response of detached leaves of beans and maize to humidity and red-infrared radiation under controlled conditions (Dry-spored, foliar, pathogenic fungi, discharge of spores).
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0239

Magnesium deficiency results in increased suberization in endodermis and hypodermis of corn roots (Zea mays, maize, suberin composition, chemical and ultrastructural proof).
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0240

Mechanism of indole-3-acetic acid oxidase in corn / by William Colilla.
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0241

Phytochrome responses to end-of-day irradiations in light-grown corn grown in the presence and absence of Sandoz 9789 (Herbicide).
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0243

Reduced transpiration and increased water efficiency by diuron in corn (Zea mays).
Ahmed, S. Fletcher, R.A. Champaign, Ill., Weed Science Society of America. Weed science. Mar 1980. v. 28 (2). p. 180-185. ill. 16 ref. (NAL Call No.: 79.8 W41).

0244

Responses of selected plant species to elevated carbon dioxide in the field (Zea mays, Glycine max, Pinus taeda, Liquidambar styraciflua).
Rogers, H.H.JEVOA. Bingham, G.E.; Cure, J.D.; Smith, J.M.; Surano, K.A. Madison : American Society of Agronomy. Journal of environmental quality. Oct/Dec 1983. v. 12 (4). p. 569-574. Includes references. (NAL Call No.: QH540.J6).

0245

Some effects of (the herbicide) buthidazole on corn (Zea mays) photosynthesis, respiration, anthocyanin formation, and leaf ultrastructure.
Hatzios, K.K. Penner, D. Champaign, Ill., Weed Science Society of America. Weed science. Jan 1980. v. 28 (1). p. 97-100. ill. 18 ref. (NAL Call No.: 79.8 W41).

PLANT TAXONOMY AND GEOGRAPHY

0246

Paecilomyces nostocoides, a new hyphomycete isolated from cysts of Heterodera zeae (Fungus isolated from the corn cyst nematode, taxonomy, biological control agent).
Dunn, M.T.MYCOA. Bronx : The New York Botanical Garden. Mycologia. Jan/Feb 1983. v. 75 (1). p. 179-182. ill. 6 ref. (NAL Call No.: 450 M99).

PROTECTION OF PLANTS

0247

Bird, insect and disease control in commercial sweet corn production.
Grau, C.R. Wedberg, J.L.; Craven, S.R. Madison, Wis., The Programs. Publication - Cooperative Extension Programs, University of Wisconsin Extension. Feb 1982. Feb 1982. (A2353). 10 p. ill. (NAL Call No.: S544.3.W6W53).

0248

The CIMMYT's (International Maize and Wheat Improvement Center) interantional approach to breeding disease-resistant wheat.
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0249

Disease control vital for crops (Maize, soybeans, nematodes, stem canker).
Garrett, W. Atlanta, Ga. : Department of Agriculture. Farmers & consumers market bulletin. Apr 25, 1984. v. 70 (17). p. 1, 16. (NAL Call No.: 280.39 G292).

0250

Economic results of pest control intensity for a multiple cropping system (Turnip greens, Zea mays, southern peas, Vigna unguiculata, net returns, United States).
Epperson, J.E. Dowler, C.C.; Chalfant, R.B.; Johnson, A.W.; Glaze, N.C.; Sumner, D.R. Alexandria, Va., The Society. Journal of the American Society for Horticultural Science. July 1982. v. 107 (4). p. 624-627. 19 ref. (NAL Call No.: 81 S012).

0251

Electrostatic deposition of pesticide spray onto foliar targets of varying morphology (Broccoli, maize, cotton, cabbage).
Law, S.E. Lane, M.D. St. Joseph, Mich., The Society. Transactions of the ASAE - American Society of Agricultural Engineers. Nov/Dec 1981. v. 24 (6). p. 1441-1445, 1448. ill. 10 ref. (NAL Call No.: 290.9 AM32T).

0252

Estimating the relationship between pest management and energy prices, and the implications for environmental damage.
Miranowski, J.A. Lexington, Ky., American Agricultural Economics Association. Extract: This paper considers alternative pest management systems for corn production with rising energy prices. First, pest control practices are discussed. Second, historical data are used to estimate derived demand equations for insecticide and herbicide treatment. Third, the impact of rising energy prices on the future demand and supply of pest management systems and on the implied use of insecticides is considered. American journal of agricultural economics. Dec 1980. v. 62 (5). p. 995-1000. 19 ref. (NAL Call No.: 280.8 J822).

0253

The farm pesticide industry.
Eichers, T.R. Washington, D.C., The Department. Extract: The primary objective of this study is to analyze the nature of the pesticide industry by smaller component markets (submarkets) and evaluate its structure, conduct, and performance. The study also examines some of the implications of pesticide regulations on the pesticide industry and on farm pesticide use. Agricultural economic report - United States Dept. of Agriculture. Sept 1980. Sept 1980. (461). 24 p. 39 ref. (NAL Call No.: A281.9 AG8A).

0254

Keeping the glitter on Minnesota's golden crop (Sweet corn).
Nagy, D. St. Paul, Minn., The Station. Minnesota science - Minnesota, Agricultural Experiment Station. Winter 1981. v. 36 (1). p. 4-7. ill. (NAL Call No.: 100 M668).

0255

Pest control in corn 1982.
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0256

Sweet corn pest management : a better way / Donald J. Prostak.
Prostak, Donald J. (New Brunswick Cooperative Extension Service, Cook College), Rutgers, the State University of New Jersey 1973?. Cover title. 12 p. : ill. ; 28 cm. -. (NAL Call No.: 275.29 N46 no.422).

PESTS OF PLANTS - GENERAL AND MISC.

0257

Autumn flocking of red-winged blackbirds in relation to agricultural variables (Survey of damage to maize in Ohio).
Stone, C.P. Danner, C.R. Notre Dame, Ind., University of Notre Dame. American midland naturalist. Jan 1980. v. 103 (1). p. 196-199. ill. 5 ref. (NAL Call No.: 410 M58).

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Archer, T.L.JEENA. Bynum, E.D. Jr.; Knutson, A. College Park : Entomological Society of America. Journal of economic entomology. Aug 1983. v. 76 (4). p. 872-876. Includes references. (NAL Call No.: 421 J822).

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1980 Kansas field crop insect control recommendations.
Brooks, Leroy. Gates, Dell E. 1980. First this publication discusses some safety tips for using insecticides, then it discusses the control of insects attacking alfalfa, corn, sorghum, wheat, and soybeans. It also includes a list of the Poison Control Information Centers in Kansas. Document available from: Distribution Center, Umberger Hall, Kansas State University, Manhattan, KS 66506. 27 p. (NAL Call No.: C 431).

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1981 Kansas field crops insect control recommendations.
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PESTS OF PLANTS - NEMATODES

0722

Applying nematicides through an overhead sprinkler irrigation system for control of nematodes (Meloidogyne incognita, Macroposthonia ornata, in squash, southern peas, and corn).
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Applying the economic threshold concept to control lesion nematodes on corn / Craig Osteen, A.W. Johnson, Clyde C. Dowler.
Osteen, Craig D. Johnson, A. W.; Dowler, Clyde C. Washington, D.C. U.S. Dept. of Agriculture, Economics Research Service 1982. Cover title ~"April 1982.". iv, 31 p. : ill. ; 22 cm. -. Includes bibliographical references. (NAL Call No.: 1 Ag84te no.1670).

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0725

Beetles that feed on silks / Ohio State University, Cooperative Extension Service, Columbus, Ohio.
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0727

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Control of nematodes in corn in southwest Kansas, 1979 (Corn (Zea mays 'NC+ 4666'), root-lesion nematode; Pratylenchus sp., ring nematode; Criconemoides sp., spiral nematode; Helicotylenchus sp., stubby-root nematode; Paratrichodorus sp.).
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0729

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0730

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0732

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Description of Trilineelus clathrocutis n.g., n.sp. (Tylenchorhynchinae: Tulenchida Thorne, 1949) with a key to species and observations on Tylenchorhynchus sensu stricto (New taxa, maize, Lolium perenne, Georgia).
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0762

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0776

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0780

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0781

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0782

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0784

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0785

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0786

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0863

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0864

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0865

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0866

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0871

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0873

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0874

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0876

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0878

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0879

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0880

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0882

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0883

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0885

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0886

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0887

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0889

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0893

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0897

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0899

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0905

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0906

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0908

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0913

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0914

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0915

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0916

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0918

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0919

Growth and aflatoxin production in shelled corn by the Aspergillus Flavus group as related to relative humidity and temperature / by John H. Hunter.
Hunter, John H. (John Howard), 1939. 1969. Thesis (Ph.D.)--Purdue University, 1969. Photocopy. Ann Arbor, Mich. : University Microfilms, 1970. xi, 115 leaves : ill. ; 21 cm. Bibliography: leaves 83-94. (NAL Call No.: DISS 69-17,191).

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0922

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0923

Helminthosporium carbonum, a cause of stalk rot of corn in Iowa, 1981 (Abstract only).
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0924

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Hooker, A.L. Perkins, J.M. Washington, D.C., The Conference. Proceedings of the ... annual corn and sorghum industry research conference - American Seed Trade Association, Corn and Sorghum Division, Corn and Sorghum Research Conference. 1981. 1981. (35th). p. 65-87. 42 ref. (NAL Call No.: 59.9 AM32).

0925

Helminthosporium maydis T toxin decreased calcium transport into mitochondria of susceptible corn (Zea mays, maize, leaf blight).
Kimber, A. Sze, H. Rockville, Md. : American Society of Plant Physiologists. Plant physiology. Apr 1984. v. 74 (4). p. 804-809. ill. Includes references. (NAL Call No.: 450 P692).

0926

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0927

The heritability of three parasitic fitness attributes of Helminthosporium maydis race T (Southern corn leaf blight, Zea mays).
Hill, J.P. Nelson, R.R. St. Paul, Minn., American Phytopathological Society. Phytopathology. May 1982. v. 72 (5). p. 525-528. Includes 13 ref. (NAL Call No.: 464.8 P56).

0928

Host range of Kabatiella zeae, causal agent of eyespot of maize.
Reifschneider, F.J.B. Arny, D.C. St. Paul, Minn., American Phytopathological Society. Phytopathology. June 1980. v. 70 (6). p. 485-487. ill. 9 ref. (NAL Call No.: 464.8 P56).

0929

Host X isolate interactions in corn inbreds inoculated with Cochliobolus carbonum race 3 (Zea mays, maize, virulence, genotype X environment interactions).
Hamid, A.H. Ayers, J.E.; Hill, R.R. Jr. St. Paul, Minn., American Phytopathological Society. Phytopathology. Sept 1982. v. 72 (9). p. 1169-1173. 20 ref. (NAL Call No.: 464.8 P56).

0930

Hybrid differences in estimation of preharvest occurrence of bright greenish-yellow fluorescence and aflatoxin in corn (Fungi, Aspergillus flavus).
Lillehoj, E.B.JEVQA. Manwiller, A.; Whitaker, T.B.; Zuber, M.S. Madison : American Society of Agronomy. Journal of environmental quality. Apr/June 1983. v. 12 (2). p. 216-219. Includes references. (NAL Call No.: QH540.J6).

0931

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0932

Identification of aflatoxin-producing atmospheric isolates of Aspergillus flavus (from several corn production sites in Missouri).
Holtmeyer, M.G. AR-NC. Wallin, J.R. St. Paul, Minn., American Phytopathological Society. Phytopathology. Apr 1980. v. 70 (4). p. 325-327. ill., map. 10 ref. (NAL Call No.: 464.8 P56).

0933

Identificaton of sorghum downy mildew resistance in corn by leaf reaction to conidial inoculum (Peronosclerospora sorghi on Zea mays).
Craig, J. St. Paul, Minn., American Phytopathological Society. Phytopathology. Mar 1982. v. 72 (3). p. 351-352. ill. Includes 3 ref. (NAL Call No.: 464.8 P56).

0934

Improving corn population for grain yield and resistance to leaf blight (caused by Helminthosporium turcicum) and stalk rot (caused by Diplodia maydis).
Miles, J.W. Dudley, J.W.; White, D.G.; Lambert, R.J. Madison, Wis., Crop Science Society of America. Crop science. Mar/Apr 1980. v. 20 (2). p. 247-251. ill. 15 ref. (NAL Call No.: 64.8 C883).

0935

Incidence and distribution of airborne spores of Aspergillus flavus in Missouri (Maize, aflatoxins).
Holtmeyer, M.G. Wallin, J.R. St. Paul, Minn., American Phytopathological Society. Plant disease. Jan 1981. v. 65 (1). p. 58-60. ill. 19 ref. (NAL Call No.: 1.9 P69P).

0936

Infection of two endosperm mutants of sweet corn by Fusarium moniliforme and its effect on seedling vigor (Zea mays, maize, rot, damping-off and blight pathogen).
Styer, R.C. Cantliffe, D.J. St. Paul : American Phytopathological Society. Phytopathology. Feb 1984. v. 74 (2). p. 189-194. ill. Includes references. (NAL Call No.: 464.8 P56).

0937

The influence of atrazine and alachlor on corn, soil-borne fungi pathogenic to corn, and the severity of diseases of corn incited by Gibberella zeae, Fusarium oxysporum, and Diplodia zeae / by John William Chesebro.
Chesebro, John William, 1942. 1970. Thesis

(Ph.D.)--University of Missouri, 1970. Photocopy. Ann Arbor, Mich. : University Microfilms, 1971. viii, 98 leaves ; 21 cm. Bibliography: leaves 89-98. (NAL Call No.: DISS 71-3,320).

0938

Influence of differential phosphorus accumulation on corn stalk rot (Fusarium moniliforme).
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0939

Influence of environment and plant maturity on gray leaf spot of corn caused by Cercospora zeae-maydis (Zea mays, maize).
Rupe, J.C.PHYTA. Siegel, M.R.; Hartman, J.R. St. Paul : American Phytopathological Society. Phytopathology. Dec 1982. v. 72 (12). p. 1587-1591. 10 ref. (NAL Call No.: 464.8 P56).

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PLANT DISEASES - PHYSIOLOGICAL

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Burmester, C.H. Adams, F. Atlanta : Potash & Phosphate Institute. Better crops with plant food. Winter 1983/1984. v. 68. p. 18-19. (NAL Call No.: 6 B46).

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1244

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Boydston, R.PLPHA. Paxton, J.D.; Koeppe, D.E. Rockville : American Society of Plant Physiologists. Plant physiology. May 1983. v. 72 (1). p. 151-155. Includes references. (NAL Call No.: 450 P692).

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1249

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1252

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1256

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Leavitt, J. Robert Carlton. Ann Arbor, Mich. University Microfilms International 1979. Thesis--Michigan State University, 1978. Facsimile produced by microfilm-xerography. vii, 84 leaves : ill. ; 29 cm. Includes bibliographies. (NAL Call No.: DISS 79-00,710).

1258

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1260

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1262

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1263

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1264

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PROTECTION OF PLANT PRODUCTS - GENERAL AND MISC.

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1328

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1331

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Document available from: Iowa State University, Publications Distribution, Printing & Publications Bldg., Ames, Iowa 50011 1980. This publication is a progress report and should not be considered conclusive. The topics covered are soil moisture report, K fertilization for corn and soybeans, sunflower populations, conservation tillage, crop disease trap plots, corn herbicides, spring wheat variety demonstration, musk thistle control, grain sorghum trial, and small grain selection. 17 p. : ill. (NAL Call No.: Document available from source.).(NAL Call No.: DRC 80-10).

1332

Annual progress report - 1980 : Northern Research Center, Clarion- Webster Research Center / Iowa State University of Science and Technology.
1981. This publication contains researched information on planting dates verses plant population, breeding, cold tolerance and Zn, S, K fertilization for corn. Soybean information

on brown stem rot and bacterial tan spot is provided. Additional topics include herbicide evaluation, small grain tests, and vegetable garden demonstrations. Document available from: Iowa State Univ., Publications Distribution, Printing & Publications Bldg., Ames, Iowa 50011. 24 p. : ill. (NAL Call No.: Not available at NAL.).(NAL Call No.: DRC 80-14,22).

1333

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1980. This publication reports the performance of different corn silage levels on confinement cattle that either had shelter or did not have shelter. Included is a discussion on the effects of season and weight on yearling steer feedlot performance. Document available from: Iowa State University, Publications Distribution, Printing & Publications Bldg., Ames, Iowa 50011. 8 p. : ill. (NAL Call No.: Not available at NAL.).(NAL Call No.: DRC 79-31).

1334

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Selleck, G.W. Baird, D.D. Champaign, Ill., Weed Science Society of America. Weed science. Mar 1981. v. 29 (2). p. 185-190. 7 ref. (NAL Call No.: 79.8 W41).

1335

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Swann, C.W. Athens, Ga., The Service. Bulletin - Georgia University, Cooperative Extension Service. Jan 1981. Jan 1981. (824). 17 p. (NAL Call No.: 275.29 G29B).

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Lockeretz, W. Shearer, G.; Sweeney, S.; Kuepper, G.; Wanner, D.; Kohl, D.H. Madison, Wis., American Society of Agronomy. Agronomy journal. Jan/Feb 1980. v. 72 (1). p. 65-72. ill. 18 ref. (NAL Call No.: 4 AM34P).

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Summary of insecticide uses in Iowa for 1981 corn production.
Stockdale, Harold J. Document available from: Iowa State University, Publications Distribution, Printing & Publications Bldg., Ames, Iowa 50011 1980. Included are topics on insecticide uses for commonly found insects.

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1551

Synergistic interactions of tebuthiuron with EPTC + R-25788 and butylate + R-25788 in corn (Zea mays).
Hatzios, K.K. Champaign, Ill., Weed Science Society of America. Weed science. Sept 1981. v. 29 (5). p. 601-604. ill. 27 ref. (NAL Call No.: 79.8 W41).

1552

Use of corn root protoplasts in herbicide absorption studies.
Darmstadt, G.L.PCBPB. Balke, N.E.; Schrader, L.E. New York : Academic Press. Pesticide biochemistry and physiology. Apr 1983. v. 19 (2). p. 172-183. ill. Includes references. (NAL Call No.: SB951.P49).

1553

1979 pesticide use on Florida vegetables, a preliminary report.
Ferguson, W.L. McCalla, I.E. Washington, D.C., The Service. Extract: According to the 1979 Vegetable Pesticide Survey, nearly 4.6 million pounds of pesticides were used to control weeds, insects, diseases, and nematodes on six vegetable crops in Florida. The six vegetable crops included cabbage, celery, lettuce, sweet corn, tomatoes, and watermelon. About 4.6 million acre-treatments were made ranging from 2.2 million for tomatoes to 148,800 for cabbage. ERS staff report - U.S. Dept. of Agriculture, Economic Research Service. July 1981. Available from NTIS. July 1981. (AGESS810708). 23 p. 6 ref. (NAL Call No.: 916762(AGE)).

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1979 pesticide use on vegetables in the Northeast, a preliminary report.
Ferguson, W.L. McCalla, I.E. Washington, D.C., The Service. Extract: According to the U.S. Department of Agriculture's 1979 Vegetable Pesticide Survey, approximately 1.3 million pounds of pesticides were used to control weeds, insects, diseases and nematodes on 10 vegetable crops in New York and New Jersey. The 10 vegetable crops include cabbage, carrots, celery, cucumbers, green peas, lettuce, onions, snap beans, sweet corn, and tomatoes. Approximately 825,000 acre-treatments were made ranging from 262,000 for sweet corn to 700 for carrots. ERS staff report - U.S. Dept. of Agriculture, Economic Research Service. Dec 1981. Available from NTIS. Dec 1981. (AGES811218). 37 ref. 7 ref. (NAL Call No.: 916762(AGE)).

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1979 pesticide use on vegetables in the Northwest, a preliminary report.
Kuntz, B.T. Ferguson, W.L. Washington, D.C., The Service. Extract: According to a 1979 Vegetable Pesticide Survey, nearly 1.3 million pounds of pesticides were used to control weeds, insects, fungi, and nematodes on seven vegetable crops in Idaho, Oregon, and Washington. The seven vegetable crops included cabbage, carrots, green peas, lettuce, onions, snap beans, and sweet corn. Approximately 671,000 acre-treatments were made ranging from 255,000 for sweet corn to 1,800 for cabbage. ERS staff report - United States Dept. of Agriculture, Economic Research Service. Mar 1982. Available from NTIS. Mar 1982. (AGES820305). 32 p. 4 ref. (NAL Call No.: 916762(AGE)).

1556

1979 pesticide use on vegetables in the Southeast, a preliminary report.
Ferguson, W.L. McCalla, I.E. Washington, D.C., The Service. Extract: In this report, patterns of pesticide use in the Southeast (North Carolina, South Carolina, and Georgia) in 1979 are discussed for cabbage, cantaloups, cucumbers, snap beans, sweet corn, tomatoes, and watermelons. Survey data were collected on quantities of pesticides used, acres treated, acre-treatments, number of applications, annual rates, and rate per acre-treatment. This report provides information useful to policymakers, researchers, extension specialists, and industry personnel. ERS staff report - U.S. Dept. of Agriculture, Economic Research Service. Oct 1981. Available from NTIS. Oct 1981. (AGES811029). 32 p. 11 ref. (NAL Call No.: 916762(AGE)).

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1979 pesticide use on vegetables in the Southwest, a preliminary report.
Ferguson, W.L. McCalla, I.E. Washington, D.C., The Service. Abstract: According to U.S. Department of Agriculture's 1979 Vegetable Pesticide Survey, about 1.7 million pounds of pesticides were used to control weeds, insects, diseases, and nematodes on 10 vegetable crops in Arizona, Colorado, and Texas. The 10 vegetable crops included cabbage, cantaloups, carrots, cucumbers, lettuce, onions, snap beans, sweet corn, tomatoes, and watermelons. Nearly 1.1 million acre-treatments were made ranging from about 284,000 for onions to 4,000 for cucumbers and snap beans. ERS staff report - U.S. Dept. of Agriculture, Economic Research Service. Dec 1981. Available from NTIS - order no. PB82-166-885. Dec 1981. (AGES811221). 45 p. 7 ref. (NAL Call No.: 916762(AGE)).

1558

1980 Kansas field crop insect control recommendations.
Brooks, Leroy. Gates, Dell E. 1980. First this publication discusses some safety tips for using insecticides, then it discusses the control of insects attacking alfalfa, corn, sorghum, wheat, and soybeans. It also includes a list of the Poison Control Information Centers in Kansas. Document available from: Distribution Center, Umberger Hall, Kansas State University, Manhattan, KS 66506. 27 p. (NAL Call No.: C 431).

1559

1980 pesticide use on field corn in the Corn Belt.
Hanthorn, M. Osteen, C.; McDowell, R.; Roberson, L. Washington, D.C., The Service. Extract: Farmers reported that 144.8 million pounds (a.i.) of pesticides were applied to field corn in the Corn Belt during 1980. This consisted of 127 million pounds (a.i.) of herbicides and 17.8 million pounds (a.i.) of insecticides. Pesticide acre-treatments totaled 75.5 million and consisted of 43.6 million with single material herbicides, 15.7 million with herbicide mixes, and 16.2 million with insecticides. The primary herbicides were alachlor, atrazine, butylate, and 2,4-D. The major insecticides were carbofuran, fonofos, and terbufos. ERS staff report - U.S. Dept. of Agriculture, Economic Research Service. Jan 1982. Available from NTIS - order no. PB82-165-481. Jan 1982. (AGES820120). 30 p. 5 ref. (NAL Call No.: 916762(AGE)).

1560

1980 pesticide use on field corn in the Lake States.
Hanthorn, M. Osteen, C.; McDowell, R.; Roberson, L. Washington, D.C., The Service. Extract: Farmers reported that 49.3 million pounds (a.i.) of pesticides were applied to field corn in the Lake States during 1980. This consisted of 43.4 million pounds (a.i.) of herbicides and 5.9 million pounds (a.i.) of insecticides. Pesticide acre-treatments totaled 26.3 million and consisted of 16 million with single material herbicides, 4.7 million with herbicide mixes, and 5.6 million with insecticides. The primary herbicides were alachlor, atrazine, cyanazine, and 2,4-D. The major insecticides were carbofuran, fonofos, phorate, and terbufos. ERS staff report - U.S. Dept. of Agriculture, Economic Research Service. Jan 1982. Available from NTIS - order no. PB82-166-893. Jan 1982. (AGES820118). 23 p. 4 ref. (NAL Call No.: 916762(AGE)).

1561

1980 pesticide use on field corn in the major producing states.
Hanthorn, M. Osteen, C.; McDowell, R.; Roberson, L. Washington, D.C., The Service. Extract: Farmers reported that 245.9 million pounds (a.i.) of pesticides were applied to field corn in the major producing States during 1980. This consisted of 209.5 million pounds (a.i.) of herbicides and 36.4 million pounds (a.i.) of insecticides. Pesticide acre-treatments totaled 135.4 million and consisted of 73.8 million with single material herbicides, 25.7 million with herbicide mixes, and 35.9 million with insecticides. The primary herbicides were alachlor, atrazine, and 2,4-D. The major insecticides were carbofuran, fonofos, and terbufos. ERS staff report - U.S. Dept. of Agriculture, Economic Research Service. Feb 1982. Available from NTIS. Feb 1982. (AGES820202). 33 p. 4 ref. (NAL Call No.: 916762(AGE)).

1562

1980 pesticide use on field corn in the Northern Plains.
Hanthorn, M. Osteen, C.; McDowell, R.; Roberson, L. Washington, D.C., The Service. Extract: Farmers reported that 33.3 million pounds (a.i.) of pesticides were applied to field corn in the Northern Plains during 1980. This consisted of 23.7 million pounds (a.i.) of herbicides and 9.6 million pounds (a.i.) of insecticides. Pesticide acre-treatments totaled 23.1 million and consisted of 9 million with single material herbicides, 3.6 million with herbicide mixes, and 10.5 million with insecticides. The primary herbicides were alachlor, atrazine, and 2,4-D. The major insecticides were carbofuran, dimethoate, fonofos, parathion, and terbufos. ERS staff report - U.S. Dept. of Agriculture, Economic Research Service. Feb 1982. Available from NTIS. Feb 1982. (AGES820204). 23 p. 4 ref. (NAL

Call No.: 916762(AGE)).

1563

1980 pesticide use on field corn in the Northern Plains / by Michael Hanthorn ... (et al.).
Hanthorn, Michael. Washington, D.C. Natural Resource Economics Division, Economic Research Service, U.S. Dept. of Agriculture Springfield, Va. NTIS 1982. February 1982 -PB82-220120. iii, 23 leaves : map ; 28 cm. -. Bibliography: p. 19. (NAL Call No.: aSB608.M2N5).

1564

1981 Kansas field crops insect control recommendations.
Brooks, Leroy. Gates, Dell E. 1981. First this publication discusses some safety tips for using insecticides, then it discusses the control of insects attacking alfalfa, corn, sorghum, wheat, and soybeans. It also includes a list of the Poison Control Information Centers in Kansas. Document available from: Distribution Center, Umberger Hall, Kansas State University, Manhattan, KS 66506. 28 p. (NAL Call No.: C 431).

1565

1982 weed control guide for field crops.
Barrett, Michael. Meggitt, William F. 1981. This publication has information on how to control weeds in corn, soybeans, small grains, field beans, sunflowers, potatoes, mint, sugarbeets, forages, & sorghum crops. Document available from: Michigan State University, Bulletin Office, P.O. Box 231, East Lansing, MI 48824. 35 p. (NAL Call No.: Not available at NAL.).(NAL Call No.: Ext. Bulletin E-434).

SOIL BIOLOGY

1566

Aflatoxin-producing fungi (Aspergillus flavus, Aspergillus parasiticus) in preharvest corn: inoculum source in insects and soils.
Lillehoj, E.B. AR-SRRC~AR-NC~AR-SD. McMillian, W.W.; Guthrie, W.D.; Barry, D. Madison, Wis., American Society of Agronomy. Journal of environmental quality. Oct/Dec 1980. v. 9 (4). p. 691-694. 8 ref. (NAL Call No.: QH540.J6).

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A comparison of the degradation of 14C (carbon isotope)-labeled DHP (dehydrogenative polymerizate) and corn stalk lignins by micro- and macrofungi and bacteria (Wood decay, soil microorganisms).
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